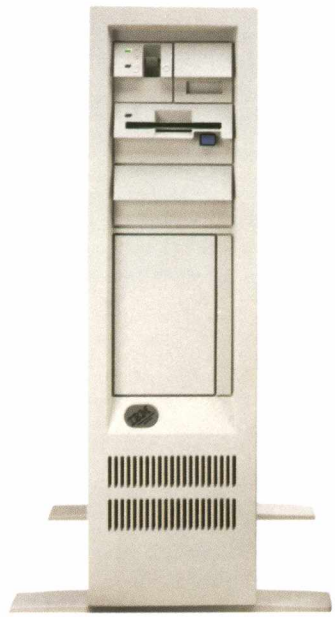
IBM Personal System/2 Model 65 SX

Impressive performance, excellent expandability—at an affordable price

The Personal System/2® Model 65 SX is just the machine for you if you want impressive computing power plus lots of room to expand. It not only offers 386SX™ processing performance, but it can be easily upgraded with large fixed disk and memory capacities. And its built-in SCSI (Small Computer System Interface) busmaster card and seven available expansion slots give Model 65 SX additional capabilities to grow as your business grows.

As a standalone, general-purpose system, the Model 65 SX has what it takes to support "storage-hungry" applications like desktop publishing. And, as a low-end LAN server, Model 65 SX is ideal for a departmental network.

This floorstanding PS/2's® 80386SX™ 32-bit system processor opens the way to 386-based benefits—like multitasking—at about what you'd pay for a 286-based machine. And its ANSI-standard SCSI busmaster adapter allows you to attach up to seven internal/external devices at once—such as IBM fixed disks and CD-ROM drives, as well as OEM SCSI devices—in a daisy-chain connection. Combine all this with PS/2 Micro Channel® architecture, and you have a system you can build on now or in the future.



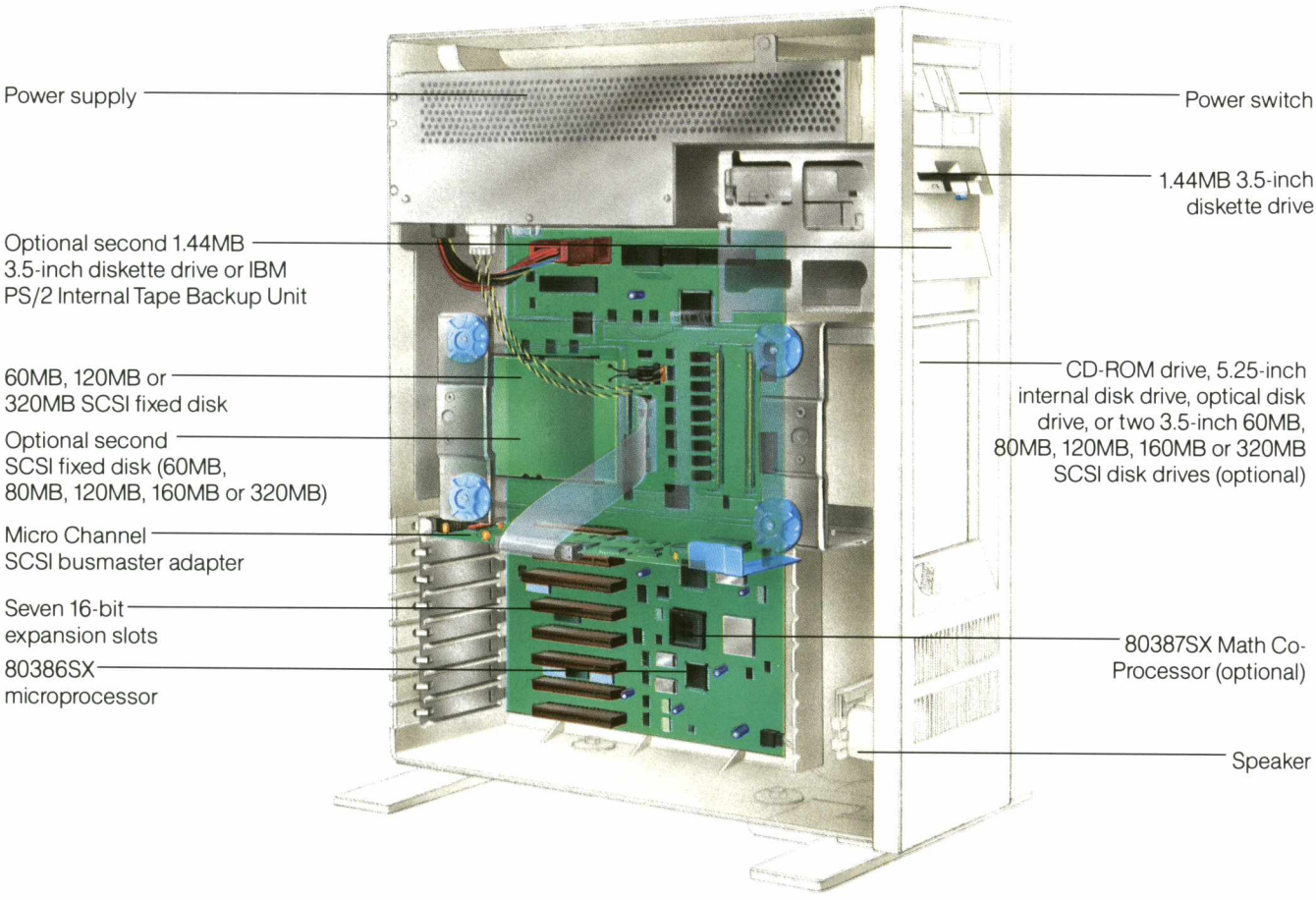
PS/2 at work

Here are some of the ways you can put Model 65 SX to work for you:

- Process all your business applications—even advanced 32-bit, 386-based applications—with ease
- Use Model 65 SX as a cost-efficient LAN server with extensive expansion capabilities
- Run major windowing and multitasking applications from a growing base of OS/2® products
- Tackle big jobs that need lots of memory, such as large graphics applications for desktop publishing
- Manage your office word processor and fax machine—and send electronic mail and files—to keep business running smoothly
- Utilize "run the business" applications in RPG from the many midrange program offerings
- Take advantage of the 65 SX's built-in SCSI card to connect up to seven peripherals from IBM and OEM vendors; add on as many as three more SCSI cards to attach up to 28 devices

IBM

Feature	Benefit
Intel® 80386SX microprocessor	• Supports applications written for the 32-bit 80386™ microprocessor at a more economical price • Improves performance over the 286-based PS/2 Model 60
Built-in SCSI busmaster	• Lets you add additional SCSI-compatible devices on a single adapter • Manages multiple disk drives more efficiently
Standard memory of 2MB	• Gives you plenty of workspace for programs and data in both DOS and OS/2 operating environments
Micro Channel architecture	• Provides an efficient and reliable platform for multitasking environment • Supports concurrent operation of processor and busmaster functions • Allows for easy setup and reconfiguration without manual switch setting
Six file storage bays	• Enable you to add such internal storage devices as a CD-ROM, a 5.25-inch diskette drive, a tape backup device, and additional high-performance fixed disk drives • Let you use up to four internal fixed disk drives for a capacity of over one billion bytes of data
Seven available expansion slots	• Deliver extensive system enhancement and growth capabilities for more memory, advanced graphics, special peripheral devices, communications features and even other processor cards
High-performance DASD	• Permits faster access to programs and data • Works with SCSI busmaster for more balanced performance and optimized system throughput
Built-in VGA graphics	• Support a variety of PS/2 analog displays • Give you 640 x 480 addressability for high-quality graphics and text • Provide a palette of over 256,000 colors


Power supply
Optional second 1.44MB 3.5-inch diskette drive or IBM PS/2 Internal Tape Backup Unit
60MB, 120MB or 320MB SCSI fixed disk
Optional second SCSI fixed disk (60MB, 80MB, 120MB, 160MB or 320MB)
Micro Channel SCSI busmaster adapter
Seven 16-bit expansion slots
80386SX microprocessor
Power switch
1.44MB 3.5-inch diskette drive
CD-ROM drive, 5.25-inch internal disk drive, optical disk drive, or two 3.5-inch 60MB, 80MB, 120MB, 160MB or 320MB SCSI disk drives (optional)
80387SX Math Co-Processor (optional)
Speaker

Wide range of options[1]

	Part no.
Storage devices	
• 3.5" 1.44MB Diskette Drive	6451072
• 5.25" 1.2MB Internal Diskette Drive	6451006
• 5.25" 1.2MB External Diskette Drive	4869002
• 5.25" 360KB External Diskette Drive	4869001
• 60MB SCSI Fixed Disk Drive	6451049
• 80MB SCSI Fixed Disk Drive	6451045
• 120MB SCSI Fixed Disk Drive	6451050
• 160MB SCSI Fixed Disk Drive	6451046
• 320MB SCSI Fixed Disk Drive	6451108
• CD-ROM Drive (internal)	6451113
• External CD-ROM Drive	3510001
• 6157 Streaming Tape Drive (60MB, 150MB)	6157001/6157002
• Internal Tape Backup Unit	30F5279
• 3363 Optical Disk Drive (A11, B01) (external)	68X79461/63X4182
• 3363 Optical Disk Drive (internal)	63X4166
• External Storage Enclosure for SCSI Devices	3511003
Scanners	
• 3117, 3118 Scanners	3117010/3118010
• 3119 PageScanner	94X2410
Connectivity/communications	
• Token-Ring Network Adapter/A	69X8138
• Token-Ring Network 16/4 Adapter/A	16F1133
• Token-Ring Network 16/4 Trace and Performance Adapter/A	74F5130
• PC Network Baseband Adapter/A	1501223
• PC Network Broadband Adapter II/A	1501222
• PC Network Adapter II/A—Frequency 2	96X5647
• PC Network Adapter II/A—Frequency 3	96X5648
• Adapter/A for Ethernet™ Networks	6451091
• Dual Async Adapter/A	6451013
• Multi-Protocol Adapter/A	6451003
• Realtime Interface Co-Processor (RIC) Multiport/2 and related features	09F1897[2]
• RIC Portmaster Adapter/A and related features	53F2601[2]
• X.25 Interface Co-Processor/2	16F1858
• 3270 Connection	74F3465
• 300/1200/2400 Internal Modem/A	94X1755
• 300/1200 Internal Modem/A	6450349
• Leased Line Modem	26F1862
• System 36/38™ W/S Emulation Adapter/A	69X6279
• Display Station Emulation Adapter/A	92X0743
• System/370™ Channel Emulation Adapter/A	06F3160
Graphics and multimedia	
• XGA Adapter/A	75X5887
• Display Adapter 8514/A[2]	1887972
• Audio Capture/Playback Adapter/A	34F2784
• Video Capture Adapter/A	34F2785
• M-Motion Video Adapter/A	34F3087
• Image Adapter/A	44F9914[2]
Other features	
• Micro Channel SCSI Adapter	6451109
• Micro Channel SCSI Adapter with Cache	6451110
• Mouse	6450350

Memory matrix tables

Memory on system board	**All models**
Standard memory	2MB
Maximum memory	8MB[3]
System board memory expansion kits	1MB (6450603) 2MB (6450604) 4MB (87F9977)
Number of memory kits that can be added on system board	1
Memory configurations possible on system board	2MB, 3MB, 4MB 5MB,[3] 6MB, 8MB[3]
Memory options (cards)	
Memory expansion card (size) and capacity range	2MB (6540609), 2–8MB
Memory kits to upgrade card	1MB (6450603) 2MB (6450604)
Maximum number of memory kits that can be added to each memory card	3
Maximum number of memory cards/system	2
Maximum system memory	16MB

Why PS/2?

Here are some of the reasons why PS/2 stands out as the best solution for your business needs.

Technological leadership through Micro Channel architecture, integrated construction and advanced design (by combining Very Large Scale Integration and Surface Mount Technology), and SCSI support for large data storage.

Extensive communications capabilities—through a wide range of connectivity options—provide concurrent support for intelligent communications adapters and co-processors, thanks to Micro Channel architecture.

Compatibility and expandability to protect your investment since the PS/2s you have today work with existing products and programs and with those you'll need tomorrow.

Service and support that provide you with everything from fast parts delivery to on-site services to system planning to 24-hour phone support—all at a competitive price.

Business Partners who enhance PS/2 capabilities by helping customers choose, customize and configure hardware and software to meet a range of needs.

Quality and reliability that ensure PS/2s are built to perform smoothly and dependably year after year.

®IBM, Personal System/2, PS/2, Micro Channel, OS/2, Quickwriter, Quietwriter, Operating System/2, and AIX are registered trademarks of International Business Machines Corporation. Intel is a registered trademark of Intel Corporation.

™System/36, System/38, System/370, Proprinter and ExecJet are trademarks of International Business Machines Corporation. 386SX, 80386SX and 80386 are trademarks of Intel Corporation. Ethernet is a trademark of Xerox Corporation.

[1]Installation may require features that are not listed, such as adapters, cables and installation kits.

[2]There is more than one part number for this type of option, depending on the amount of on-card memory and other functions desired.

[3]Achieving this configuration requires replacing the standard 2MB kit with a 4MB kit.

[4]Supported by PS/2 Image Adapter/A series.

IBM Personal System/2 Model 65 SX at a glance

Machine numbers	8565-061	8565-121	8565-321
Microprocessor			
Standard	80386SX	80386SX	80386SX
Clock speed	16 MHz	16 MHz	16 MHz
Wait states	0–2	0–2	0–2
Optional	80387SX	80387SX	80387SX
Clock speed	16 MHz	16 MHz	16 MHz
Part number	27F4676	27F4676	27F4676
Bus architecture	Micro Channel	Micro Channel	Micro Channel
Data path	16-bit	16-bit	16-bit
Memory (RAM)			
Standard	2MB (100ns)	2MB (100ns)	2MB (100ns)
Maximum on system board	8MB[3]	8MB[3]	8MB[3]
System maximum	16MB	16MB	16MB
Integrated functions	Video Graphics Array (VGA) and display port, serial port, parallel port, pointing device port, keyboard port, diskette controller, clock/calendar, SCSI adapter (includes fixed disk support), security password feature.		
Available expansion slots	Seven 16-bit	Seven 16-bit	Seven 16-bit
Diskette storage (internal)			
Standard (3.5-inch)	1.44MB	1.44MB	1.44MB
Optional (3.5-inch)	2nd 1.44MB	2nd 1.44MB	2nd 1.44MB
Optional (5.25-inch)	1.2MB	1.2MB	1.2MB
Diskette storage (external)			
Optional (5.25-inch)	360KB or 1.2MB	360KB or 1.2MB	360KB or 1.2MB
Fixed disk storage			
Standard	60MB (23ms)	120MB (23ms)	320MB (12.5ms)
Optional SCSI	Up to three additional 60MB, 80MB, 120MB, 160MB or 320MB internal drives		
Display modes	VGA (includes all EGA, CGA and MCGA modes)		
Text	360 or 720 x 400; 9 x 16 pel character matrix; 80 columns x 25 rows; up to 16 colors		
Graphics	320 x 200 x 256 colors or 64 gray shades; 640 x 480 x 16 colors or 16 gray shades; palette of 256,000 colors or 64 gray shades		
Optional graphics	Expanded graphics modes, including 1,024 x 768 x 256 colors, are supported via the optional PS/2 Display Adapter 8514/A or XGA Display Adapter/A and related features; higher resolution modes are supported by the PS/2 Image Adapter/A series		
Supported displays	IBM Personal System/2 Color Displays 8512, 8513, 8514 and 8515; IBM Personal System/2 Monochrome Displays 8503, 8506,[4] 8507 and 8508[4]		
Supported printers/ plotters	IBM Proprinter™ family, IBM Quickwriter,® IBM Quietwriter® III, IBM ExecJet,™ IBM LaserPrinter family, IBM Page Printer 3812/3816, IBM 618X and 737X Color Plotters		
Keyboard	101 keys, including 12 function keys, 3 lighted mode indicators; 6-foot coiled cable		
Power supply	250-watt worldwide autosensing and autoswitching		
Operating systems	DOS 3.3 or higher, IBM Operating System/2® Standard or Extended Edition 1.2 or 1.3, AIX® Personal System/2[5]		
Size	Approx. 23.5"H x 6.5" W x 19.0"D (597mm x 166mm x 482mm); 45.3 lbs. (20.6 kg)		
Warranty	One-year limited warranty		

[5]AIX Personal System/2 Operating System available in a future release.

©IBM Corporation 1990

International Business Machines Corporation
US Marketing & Services
Department ZW1
1133 Westchester Avenue
White Plains, NY 10604

Printed in the United States of America
9-90

All Rights Reserved

References in this publication to IBM products or services do not imply that IBM intends to make them available outside the United States.

Check with your IBM representative for electrical requirements outside the United States.

G221-2909-01